



Fig. 18ab Here is a photo sequence of the first coil's secondary unwinding. The red X is the start point of the unwind. This lead is one of the secondary connections to the other coil. The Y is the secondary output lead shown in fig. 9c. Each compartment was originally filled, the wire was crossed over through the channels in the bobbins, then the adjacent compartment was filled until the coil was complete.

There will be a summary of the *actual* compartmental winding counts of the second complimentary coil forthcoming, suffice to mention now that the two coils were definitely *not* wound in unison. The winding/layer counts and compartment counts are slightly different. This means that, theoretically, at least, that the distributed capacities in the coils are not perfect matches. Whether or not this is a practical matter or just academic is debatable. The fill pattern on these look as though the compartments were filled by manual traverse movements and the fill of each compartment is slightly different in all of the BV type transformers that have come across my bench thus far. These are very small differences to be sure but in order to wind these faithfully with an automatic winder, the machine would have to be programed wind for wind. Also, in order to wind a sectioned type of coil on my CNC winder, the individual layers must be made level and clean otherwise the vertical sectional borders will ot be clean and correct.

The scans on page 20 show the coil after the first section of windings have been removed. There is a layer of the narrow textured Tesafilm covering the next winding in each compartment. The Tesafilm is just over one wrap with very little overlap and is held down with a daub of varnish or glue. It is wrapped in the opposite direction from the coils wind rotation.